



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं० ४०] नई दिल्ली, शनिवार, अक्टूबर ४, १९८० (आश्विन १२, १९०२)

No. 40] NEW DELHI, SATURDAY, OCTOBER 4, 1980 (ASVINA 12, 1902)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

### भाग III—खण्ड २

#### [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 4th October 1980

#### CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated the 30th August 1980 under the heading "PATENTS SEALED" delete 146914.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700-017.

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

28th August 1980

986/Cal/80. Sulzer Brothers Limited. Steam throttle valve.

987/Cal/80. Cummins Engine Company, Inc. Calibration of torque measuring transducers.

988/Cal/80. The Deutsch Company Metal Components Division. Fittings for fluid tight connection tubular members. (August 28, 1979) (March 5, 1980).

989/Cal/80. Toyo Engineering Corporation and Mitsui Toatsu Chemicals, Incorporated. Process for concentrating aqueous urea solutions.

29th August 1980

990/Cal/80. R. Davidson. Means for preventing rotation of wobble gears, swash plates and the like. (August 30, 1979).

991/Cal/80. Micronair (Aerial) Limited. Spraying apparatus. (August 29, 1979).

992/Cal/80. PCUK Products Chimiques UGINE Kuhlmann. Process for purifying waste water containing colouring matter.

993/Cal/80. Versa Consultoria Tecnica ITDA. Process for the production of fuel alcohol, without viruses.

30th August 1980

994/Cal/80. S. Kashiwayama and K. Takamura. Dermatic medicament.

995/Cal/80. K. L. Tsai. A self-shut type lock device.

996/Cal/80. Rutgerswerke Aktiengesellschaft. Process for the preparation of highly aromatic pitchlike hydrocarbons.

997/Cal/80. F. Campbell, Jr. Truncated Traingular skid pipe.

998/Cal/80. Veb Dampferzeugerbau Berlin. Steam generators.

999/Cal/80. Leybold-Heraeus GMBH. Air-Jock pipe for multi-section arc electrodes in vacuum metallurgy installations. (May 28, 1980).

1st September 1980

1000/Cal/80. Yardney Electric Corporation. Improved method of making sintered plaque nickel electrodes.

1001/Cal/80. Yardney Electric Corporation. Improvements in method of manufacture of sintered nickel plaque electrode material.

2nd September 1980

1002/Cal/80. Sperry Corporation. Pressure relief valve. (March 25, 1980).

1003/Cal/80. Sperry Corporation. Hydraulic control valve system. (March 25, 1980).

1004/Cal/80. Sperry Corporation. Hydraulic systems for actuators. (March 25, 1980).

1005/Cal/80. Massey-Ferguson-Perkins Limited. Valve seats. (September 8, 1979).

3rd September 1980

- 1006/Cal/80. Glowne Biuro Studiow I Projektow Gorniczych. Method of disintegration of body of coal.
- 1007/Cal/80. Hylsa, S. A. Method of making sponge iron.
- 1008/Cal/80. The Babcock & Wilcox Company. Pulverizer roller loading.
- 1009/Cal/80. Beloit Corporation. Improvements for effecting fiber orientation in a papermaking machine headbox.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, SARASWATI MARG, KAROL BAGH, NEW DELHI-110005.

17th July 1980

- 525/DEL/80. Swaran Lal Bhatia, "Under-Water Pneumatic Caisson and Diving Bell."
- 526/DEL/80. Ultra Pure Lab Cham, "Ratanjot and Turmeric."
- 527/DEL/80 Albert Henry Knowles, "Process and apparatus for Accelerating growth rate of Salmonoids and other Fish and the like." (July 17, 1979).

18th July 1980

- 528/DEL/80. Emilia Garcia Clavel and Jesus Martinez Lope, "Method of obtention of Alumina from Clays and Aluminium Silicates, in general."

21st July 1980

- 529/DEL/80. Council of Scientific & Industrial Research, "An Electrochemical Process for the production of 2 Amino 4-Nitro Toluene from o-Nitro Toluene."

- 530/DEL/80. Council of Scientific & Industrial Research, "A Process for the preparation of High grade Refractory Magnesia from off Grade Magnesite Ores."

- 531/DEL/80. Council of Scientific & Industrial Research, "Improvements in or relating to production of modified Sal Seed Meal from Deoiled Sal Seed Cake obtained from Solvent extraction Plants."

- 532/DEL/80. Sulzer Brothers Limited, "Vapour Generator for two Fuels having different Flame radiation Intensity."

- 533/DEL/80. Sulzer Brothers Limited, "Vapour generator with a partition between two Combustion Chambers."

- 534/DEL/80. Sulzer Brothers Limited, "Plant Circuit."

- 535/DEL/80 Exxon Research and Engineering Co., "Method of Stabilizing Isoolefin Polymer Slurries."

22nd July 1980

- 536/DEL/80. Georges Albert Balique, "Improvements in or relating to apparatus for Recording, Control and early detection of Cardiovascular diseases."

- 537/DEL/80. Toyo Engineering Corporation, "Granule Producing Machine."

- 538/DEL/80. Bayer Aktiengesellschaft, "Phenol-Formaldehyde Condensates, their preparation and their use as dispersing agents, liquefaction agents and training agents."

- 539/DEL/80. Bayer Aktiengesellschaft, "A Wound Tyre."

- 540/DEL/80. Lionel Charles Renwick Emmett, "T.U.D. Thread Retriever." (July 24, 1979).

23rd July 1980

- 541/DEL/80. Council of Scientific & Industrial Research, "Development of Continuous Wire Plating Equipment."

- 542/DEL/80. ROHM GMBH, "Process for the Softening of Skins and Hides."

24th July 1980

- 543/DEL/80. The British Petroleum Company Limited, "Production of Aromatic Hydrocarbons from Olefins." (August, 7, 1979).

25th July 1980

- 544/DEL/80. ROHM GmbH, "A Method of manufacture of Leather."

- 545/DEL/80. Bayer Aktiengesellschaft, "Process for the Preparation of concentrated solutions of 1:2 Cr or 1:2 Co Complex Dyestuffs which are free from Sulpho Groups."

28th July 1980

- 546/DEL/80. Gurdev Singh, "Improvements in or relating to pressure control valves for use in kerosene oil stoves, burners or the like."

- 547/DEL/80. Ram Swarup Kaushal, "Hydraulic Hinge which serves the dual purposes of hanging and closing the door hydraulically."

- 548/DEL/80. Prem Nath, trading as P.S. Co., "Cover for Automobile Body."

- 549/DEL/80. Tate & Lyle Patent Holdings Limited, "Process for the production of a Surfactant containing Sucrose Esters." (December 19, 1979) and May 1, 1980).

- 550/DEL/80. Jack Uhlmann, "An improved Screw-and-Nut Unit or Screw Joint."

29th July 1980

- 551/DEL/80. Jitender Gupta, "Improved Carburetor."

- 552/DEL/80. Foster Wheeler Limited, "Synthesis Gas for Ammonia Production."

- 553/DEL/80. White Consolidated Industries, INC., "Water Deslagger with Planetary Drive."

- 554/DEL/80. BTR Limited, "Real Fastening Assembly Suitable for use in Conjunction with a Rail Pad." [Divisional date August 3, 1977].

- 555/DEL/80. Bayer Aktiengesellschaft, "Reactive Dyestuffs, their preparation, and their use for Dying and Printing materials containing Hydroxyl Groups or Nitrogen."

31st July 1980

- 556/DEL/80. Mr. Arun Kumar Gaur, "An Internal Combustion Engine."

- 557/DEL/80. Prudential Research Corporation, "A Wind-Turbine."

- 558/DEL/80. Government Opium & Alkaloid Works Undertaking, "A Process." [Divisional date January 24, 1980].

- 559/DEL/80. Government Opium & Alkaloid Works Undertaking, "A Process."

- 560/DEL/80. Prudential Research Corporation, "An Adapter."

1st August 1980

- 561/DEL/80. Saraswati Industrial Syndicate Ltd., "Improvements in or relating to natural circulation fluidized Combustion Bed water Tube Boilers or Steam Generators."

- 562/DEL/80. John David Archer, "Utilisation of Wind Energy."

2nd August 1980

563/DEL/80. Lalta Prasad Gupta, "Energy from the moving weight units."

564/DEL/80. Mobil Tyco Solar Energy Corporation, "Solar Energy Collection System."

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, TODI ESTATES (3RD FLOOR), LOWER PAREL (WEST), BOMBAY-400 013

12th August 1980

240/BOM/80. Patrick V. J. Monteiro. Improvements in or relating to couplers for pipes.

14th August 1980

241/BOM/80. 1. Ishwarlal Popatlal Kanadiya 2. Vinoirai Popatlal Kanadiya, 3. Sanmukhrai Popatlal Kanadiya. A pan and pan support for weighing scales.

242/BOM/80. 1. Ishwarlal Popatlal Kanadiya, 2. Vinoirai Popatlal Kanadiya, 3. Sanmukhrai Popatlal Kanadiya. Pan and pan support for weighing scales.

16th August 1980

243/BOM/80. Ramanathan Bala Subramaniam AC sleeping unit.

244/BOM/80. The Directorate General Factory Advice Service &amp; Labour Institutes. Disposable Breathing Mask.

18th August 1980

245/BOM/80. Kumar Balram Bhatia. An improved paper punching machine.

20th August 1980

246/BOM/80. Pawan Industries. Improvement in or relating to thresher cum winnower.

247/BOM/80. Shah Granites Private Limited. A process and marble, granite and the lime material.

21st August 1980

248/BOM/80. 1. Bhaichand Ubakbhai Doshi, 2. Navin Bhaichand Doshi, 3. Mahendra Bhaichand Doshi, 4. Anil Bhaichand Doshi. Improvement in or relating to laminated structures.

249/BOM/80. Anupam &amp; Co. A Beach Towel.

23rd August 1980

250/BOM/80 Honest Research &amp; Development Centre. Improvement in or relating to bobbin and spindle for twisting machines.

251/BOM/80. Adi Phiroze Peston Jamas. Improvements in speakers used in sound reproduction.

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600002.

26th August 1980

161/Mas/80. K. Seshadri. A fuel economiser.

27th August 1980

162/Mas/80. Madura Coats Ltd., Improvement in and/or related to the adhesion properties of polyester cords to rubber.

28th August 1980

163/Mas/80. V.V.T. Thirupathy. Spark plug with a tapered bore.

30th August 1980

164/Mas/80. K. G. Panje. Novel wind mill.

165/Mas/80. K. G. Panje. Novel solar cooker.

166/Mas/80. K. G. Panje. Novel wind mill.

167/Mas/80. K. G. Panje. Novel device for using solar cooker.

168/Mas/80. K. G. Panje. Novel water heater (Immersion type).

## ALTERATION OF DATE

457/Cal/79 } 148039 } Ante dated 23rd August 1977.

148043 } 106/Bom/77 } Post dated 14th September 1977.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 97H.

148033.

Int Cl-H05b 3/00.

## FURNACE INSTALLATION.

Applicant : FLKTROSCHMELZWFRK KEMPTEN GMBH, OF HERZOG-WILHELM-STRASSE 16, 8000 MUNICH 2, WEST GERMANY.

Inventor : DR. FRITZ PETERSEN AND ANDREAS KORSTEN.

Application No. 444/Cal/77 filed March 25, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A furnace installation of the type operated by direct electrical heating according to the resistance principle, the electrical current being supplied by means of electrodes and passing through a substantially horizontal resistance core in order to heat the said core, which in turn heats a furnace charge surrounding the said core, in which the resistance core being in a semicircular to U-shape and said electrodes being spaced so that the ratio of the length of the resistance core to the distance between said electrodes is at least 1.6.

Comp. Specn. 15 Pages.

Drg. 1 Sheet.

CLASS 103 148034.

Int. Cl.-C23f 11/00.

IMPROVED PROCESS FOR THE PRODUCTION OF STAINLESS STEEL SUBSTRATES WITH CORROSION RESISTANT BLACK AND SHINING COATINGS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors : KUMMATTITHIDAL SANTHANAM RAJA GOPALAN, SUBBAH NADAR GURUVIAH, MRS. VINU SUBRAMANIAN VENKATASUBRAMANIAN CHANDRA-SHEKARAN AND MRS. VIJAYALAKSHMI RAMAKRISHAN.

Application No. 200/Del/77 filed August 18, 1977.

Complete Specification left August 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims. No drawings.

An improved process for the production of stainless steel substrates with corrosion resistant black and shining coating comprising treating the substrates in an acid bath and further in an alkaline bath, characterised in that the sequence of steps of the process are mechanically polishing the substrates, degreasing the same with an organic solvent, pickling the same in a mineral acid, treating the pickled substrate in a concentrated acid bath, washing the substrate with water further treating the washed substrate in an alkaline bath and washing the thus treated substrate with water and drying the same.

Comp. Specn. 9 Pages.

Drgs. Nil.

CLASS 164C & 201C.

Int. Cl.-C02c. 5/02

148035.

A METHOD FOR REDUCTION AND REMOVAL OF HEXAVALENT CHROMIUM FROM EFFLUENT WATER BY THE USE OF MINERAL PYRITES FOR EFFLUENT CONTROL

Applicant : THE HINDUSTAN FERTILIZER CORPORATION LIMITED, FORMERLY KNOWN AS THE FERTILIZER CORPORATION OF INDIA LIMITED, DURGAPUR, DISTRICT : BURDWAN, WEST BENGAL, INDIA, REGD. OFFICE AT MADHUBAN, 55, NEHRU PLACE NEW DELHI-110024.

Inventor : SRI TARAPADA CHATTERJEE.

Application No. 182/Del/78 filed March 9, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims. No drawings.

A process for the removal of Hexavalent Chromium compounds as chromic hydroxide and chromic phosphate precipitate from the industrial effluent water comprising passing the said water through a column of Mineral Pyrites ( $FeS_2$ ) the pH being adjusted between 5.0 to 7.0 at the inlet of the column and 4.2 to 5.0 at the outlet point of the column, and thereby precipitating the trivalent chromium compounds thus formed at the outlet point and removing the said precipitates by filtration.

Comp. Specn. 4 Pages.

Drgs. Nil.

CLASS 32F2a.

148036.

Int. Cl.-C07c 69/36.

A METHOD OF PREPARING OXALIC ACID ESTERS.

Applicant : SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventor : UGO ROMANO AND FRANCO RIVETTI.

Application No. 372/Cat/78 filed April 5, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims. No drawings.

A method for the preparation of esters of the oxalic acid starting from carbon monoxide and an alcohol of the formula  $ROH$  wherein R is an alkyl, aryl, alkaryl, or aralkyl or a cycloalkyl group, characterised in that the reaction is carried out in the presence of a catalyst composed by : I) complexes of palladium having the formula  $Pd(L_1L_2L_3L_4)$ ; where Pd indicates zero valent or bivalent palladium; wherein  $L_1$  and  $L_2$  can be equal and are selected from the group consisting of tertiary amines, phosphines, aliphatic and aromatic arynes and isonitriles, phenanthralinc, dipyridyl and their substituted derivatives;  $L_3$  can be equal to  $L_1$  and  $L_2$  or is selected from the group consisting of halides, sulphates, nitrates, carboxylates, alkoxy carbonyls, acetato and carbomethoxy radical;  $L_4$  can be equal to  $L_3$  or can indicate a  $=CO$  (i.e. carbonyl) group (II) a substance as a co-catalyst having acid behaviour i.e. capable of accepting an electron pair,

Comp. Specn. 10 Pages.

Drgs. Nil.

CLASS 40B.

148037.

Int. Cl.-C10g 11/00.

PROCESS FOR THE CATALYTIC CRACKING OF CRUDE PETROLEUM FRACTIONS.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT LAAN 30, THE HAGUE, THE NETHERLANDS.

Inventors : ANDRIE PIRRET, RICHARD CAJHO AND EMMANUEL NEEL.

Application No. 260/Del/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims. No drawings.

A process for the catalytic cracking of crude petroleum fractions in the presence of a catalyst containing a crystalline aluminosilicate zeolite contaminated with 0.1-2% by weight of heavy metals such as herein described calculated as total quantity of metal in relation to the carrier characterized in that the said catalyst contains 0.01-2.5% by weight of tin calculated as metal in relation to the carrier.

Comp. Specn. 8 Pages.

Drgs. Nil.

CLASS 80F.

148038.

Int. Cl.-B01d 33/00.

AN AGITATOR MECHANISM FOR MAINTAINING FEED SOLIDS IN SUSPENSION IN THE VAT OF A CONTINUOUS ROTARY DRUM FILTER UNIT.

Applicant : DORR-OLIVER INCORPORATED, OF 77 HAVEMEYER LANE, STAMFORD, CONNECTICUT, UNITED STATES OF AMERICA.

Inventor : VAINO JOHANI KOSONEN.

Application No. 377/Del/78 filed May 19, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

23 Claims.

An agitator mechanism for maintaining feed solids in suspension in the vat of a continuous rotary drum filter unit comprising a rotary filter drum having a pair of end trunnions, a filter vat having feed means for supplying feed suspension to the vat, to be subjected to filtration by said drum, a pair of main bearings for the respective trunnions, associated with respective ends of the vat in fixed relationship therewith, whereby the filter drum is rotatably supported with the lower portion thereof immersed in the bath of feed suspension in the vat, which agitator mechanism comprises an agitator frame structure having a curved frame shaped so as to conform substantially to the circular curvature of the filter drum at the underside thereof, and in radially spaced relationship therewith, said agitator frame structure extending within the vat substantially from end to end of the filter drum, a pair of rubber torsion bearings

disposed below the respective trunnions and aligned so as to define an oscillatory axis for said agitator frame structure, extending parallel to, and spaced vertically downwardly from the trunnions axis, support means for said torsion bearings, fixedly associated with the respective ends of the vat, said torsion bearings comprising a center bearing pin fixed relative to said support means, a rubber filler in the form of a thick walled annular member surrounding the center pin and secured thereon against rotational slippage, and a housing surrounding said annular rubber member sufficiently tight to prevent slippage between the rubber member and the housing when torque is applied to the housing relative to the fixed center pin, by oscillatory movements imparted to the agitator frame structure, an end suspension structure extending rigidly from each end of the curved frame towards the respective torsion bearing, and in a plane perpendicular to the oscillatory axis, a hinge connection between said bearing housing and the associated end suspension structure of the agitator frame structure, with a hinge axis extending at right angles to the trunnion axis and actuating means for imparting said oscillating movements to the agitator frame structure.

Comp. Specn. 36 Pages.

Drg. 7 Sheets.

CLASS 32F.b &amp; 55E.

148039.

Int. Cl.-C07d 27/04.

**PROCESS FOR THE PREPARATION OF N-(1-ALLYL-2-PYRROLIDYL)METHYL)-2 3-DIMETHOXY-5-SULFAMOYL-BENZAMIDES.**

Applicant : SOCIETE D'ETUDES SCIENTIFIQUES ET INDUSTRIELLES DE L'ILE-DE FRANCE, OF 46, BOULEVARD DE LATOUR MAUBOURG, 75 PARIS 70, FRANCE.

Inventors : MICHEL LEON THOMINET AND JACQUES PERROT.

Application No. 457/Cal/79 filed May 4, 1979.

Division of Application No. 1318/Cal/77 filed August 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims. No. drawings**

A process for the preparation of N-(1'-allyl-2'-Pyrrolidylmethyl)-2, 3-dimethoxy-5-sulfamoyl benzamide which comprises reacting 2, 3-dimethoxy-5-sulfamoyl Benzoic acid with 1-allyl-2-aminomethyl pyrrolidine in the presence of a condensing agent as herein defined.

Comp. Specn. 15 Pages.

Drgs. Nil

CLASS 48C.

148040.

Int. Cl.-H01b 3/00.

**AN ELECTRICAL INSULATOR SUITABLE FOR USE IN A RAILWAY RAIL-AND-FASTENING ASSEMBLY TO INSULATE A RAIL FROM A RAIL CLIP AND FROM AN ANCHORAGE FOR THE CLIP.**

Applicant : PANDROL LIMITED, OF 9, HOIBORN, LONDON EC1N 2NE, ENGLAND.

Inventor : DAVID RONALD SEELEY.

Application No. 18/Cal/77 filed January 7, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**12 Claims.**

An electrical insulator suitable for use in a railway track to electrically insulate a rail from a rail clip, which bears downwardly upon the upper surface of the rail flange, and from an anchorage at one side of the rail flange, for the rail clip, the insulator including a first, elongate, plate-like, portion for positioning on the rail flange, a second portion depending from one side of the first portion, for positioning between the edge of the rail flange and the anchorage and two-lugs projecting from the second portion in the same direction as one another away from the first portion and near opposite ends thereof, said lugs serving to

project on opposite sides of the anchorage to limit movement of the insulator along the rail, said first portion comprising, on its upper face, a flat surface upon which the clip is to bear, the centre of this flat surface being nearer to one end of said first portion than it is to bear, the centre of this flat surface being nearer to one end of said first portion than it is to the other end of said first portion, and said first portion further comprising a ramp surface leading up to said flat surface from said other end of the first portion.

Comp. Specn. 7 pages.

Drg 1 sheet.

CLASS 194C.c.

148041.

Int. Cl.-H01 j 61/00.

**METHOD OF PRODUCING A LOW-PRESSURE GAS DISCHARGE LAMP.**

Applicant : N. V. PHILIPS' GLOEILAMPENFABRIEKEN, AT EMMASINGEL, EINDHOVEN, NETHERLANDS.

Inventors : JAN HASKE AND CORNELIS PETERS.

Application No. 160/Cal/77 filed February 3, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**11 Claims**

Method of producing a low pressure gas discharge lamp having a tubular discharge space in which two electrodes are disposed and wherinc a body of thinly distributed filament wool, for example glasswool, is disposed between the electrodes, characterized in that prior to introduction in the discharge space the filament wool is prepared into a mat on a carrier on a thin, ductile material with a smooth surface, having a length equal to or smaller than the distance between the electrodes, whereafter the carrier and the mat are rolled up to form a cylinder having a length equal to the length of the mat, whereafter this cylinder is situated before an end of the tubular envelope and the glasswool is blown into the tubular discharge space by means of a gas stream.

Comp. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS 69 E + 1.

148042.

Int. Cl. H 01 h 9/54.

**A COMPOUND ELECTRIC SWITCH HAVING RECTIFYING MEANS FOR ATTENUATING CURRENT TO A LOAD.**

Applicants : MECHELONIC WELDERS PRIVATE LIMITED, F-5, NAND DHAM INDUSTRIAL ESTATE, MAROL, BOMBAY-400 059, INDIA.

Inventor : JOSEPH JOSEPH NEDUMKUNNEL.

Application No. 90/BOM/77. Filed March 5, 1977.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Bombay Branch.

**4 Claims**

A compound electric switch comprising a lead from one pole of a current source, switching means connected to said lead consisting of a three-position switch lever where one position disconnects the current to the load, a second position connects the full current to the load and a third position connects the current to the load through a means for attenuating said current comprising a rectifying circuit.

Comp. Specn. 7 Pages.

Drg. 1 Sheet.

CLASS 56 D

148043

Int. Cl.-B01d 53/00.

**A METHOD OF AND EQUIPMENT FOR RECOVERY OF HIGH BOILING PETROLEUM FRACTIONS AND/OR TURPENTINE PRESENT IN A GASEOUS MIXTURE ISSUING AS EXHAUST FROM TEXTILE AND LIKE DRIERS.**

Applicants : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

Inventors : SAILJESH RASIKCHANDRA BHATT,  
2. KOPPULA SUBRAHMANYAM 3. KIRIT RAMANLAL  
SWAMY.

Application No. 106/Bom/77 filed March 14, 1977.

Post dated to 14th September, 1977.

Complete specification left December 12, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

14 Claims.

A method of recovery of high boiling petroleum fractions and/or turpentine present in a gaseous mixture, issuing as exhaust from textile and like driers comprising removing suspended matter from said mixture, e.g. by filtration; cooling the filtered gaseous mixture, and contacting the same with a bed of activated carbon for preferential adsorption of the fraction/turpentine in said mixture; subjecting, after the activated carbon bed is substantially saturated with the said fraction/turpentine to desorption by first heating to at least the boiling point of the fraction/turpentine adsorbed and subsequently subjecting the said bed to vacuum; cooling and condensing the outgoing vapours of water and the said fraction/turpentine retained from the heating step and separating the two by allowing the condensate to settle into heavier and lighter layers of water and the distillate comprising said fraction/turpentine.

Prov. specn—12 pages Drawing—2 sheets.

Comp. specn—14 pages No drawings.

CLASS 39-0 & 136F. 148044.

Int. Cl.-C01b 33/32.

#### A BINDER COMPOSITION AND A METHOD OF MAKING AN ARTICLE USING THE COMPOSITION.

Applicant : CO-OPERATIVE VERKOOP-EN PRODUKTIEVERENIGING VAN AARDAPPELMEEL EN DERIVATEN "AVEBE" G.A., OF BENEDEEN OOSTERDIEP 27, VEENDAM, HOLLAND.

Inventors : ANDRIES KRAAK AND RAYOOND DOUGLAS GEORGE.

Application No. 1137/Cal/77 filed July 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patent office Calcutta.

16 Claims. No drawings.

A binder composition comprising in aqueous solution an alkali metal silicate and a stabilised starch hydrolysate having a dextrose equivalent of below 5.

Comp. Specn. 14 Pages.

Drgs. Nil.

CLASS 32F<sup>a</sup> d & G. 148045

Int. Cl.-C07c 59/32.

#### PROCESS FOR THE PRODUCTION OF 2-KETOGLUONATE AND 2-KETOGLUCONATE MIXTURE FROM 2, 5-DIKETOGLUCONIC ACID.

Applicant : PFIZER INC., OF 235 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : GLENN COLTON ANDREWS.

Application No. 405/Del/77 filed November 21, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

13 Claims. No drawings.

A process for preparing a mixture of 2-ketogluconate and 2-ketogluconate which comprises reducing a 2, 5-diketogluconate with an alkali metal borohydride characterized in that in order to effect regio and stereo-selective reduction there is employed from 0.8 to 1.1 equivalents as hereinbefore defined per mole of an alkali metal borohydride in solution at a pH greater than 5 and a temperature between

-30°C. and 50°C. said 2, 5-diketogluconate being selected from 2, 5-diketogluconic acid, a normal alkyl ester of said acid wherein said alkyl group is of 1 to 4 carbon atoms, and a salt of said acid having a counter ion selected from an alkali metal, an alkaline earth metal ammonium and tetraalkylammonium having from 1 to 4 carbon atoms in each alkyl group.

Comp. Specn. 23 Pages.

Drgs. Nil

CLASS 204

148046

Int. Cl. G 01 g 1/36 & G 01 g 7/02

#### A WEIGHING MACHINE

Applicant & Inventor : THAIVANNAN SESHAGIRI, 33 III STREET, ABHIRAMAPURAM, MADRAS-600018, TAMIL NADU, INDIA.

Application No. 185/Mas/77 filed November 29, 1977.

Complete specification left February 17, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

2 Claims.

A weighing machine, comprising the known oscillating weighing member for indicating the balance point, such as the steelyard, characterised by a known magnetic source for setting up a magnetic field cutting the weighing member, whereby the magnetic field is disturbed or interrupted during oscillation of the weighing member; a known sensor for sensing the disturbance or interruption in the magnetic field during oscillation of the weighing member; and a known indicator connected to the said sensor for the perceptible indication connected to the said sensor for the perceptible indication of the said disturbance or interruption or the cessation thereof so as to indicate the balance point.

(Prov.-4 pages; Com-5 pages; Drwg.-1 sheet)

CLASS 32E.

148047.

Int. Cl.-C08f 27/02.

#### PROCESS FOR THE BULK CHLORINATION OF SOLID FINELY DIVIDED HIGH DENSITY POLYETHYLENE.

Applicant : STAMICARBON B. V., OF P.O. BOX 10, GELDEN, THE NETHERLANDS.

Inventors : LOWHARDT ADOLF ALBERT SCHOEN, PIETER JAN VAN ASPEREN, WILHELMUS GERARDUS MARIE BRULS, AND WILHELMUS ANTONIUS MARIE DEBETS.

Application No. 137/Del/78 filed February 20, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

16 Claims. No drawings

A process for the chlorination of polyethylene by contracting a solid powdery (or pulverulent) polyethylene with chlorine, that may be diluted with inert gases, the chlorination being carried out in a first step below, and in a second step above, the crystalline melting point of the polyethylene, characterised in that a polyethylene, that may contain up to 5 mole % of one or more copolymerized C<sub>6</sub>-C<sub>8</sub> 1-alkenes, and having a density of from 0.930 to 0.970, a melt index of not more than 5, a particle size distribution of from 50 to 200/ $\mu$  or within that range, a porosity of not more than 0, 15 cm<sup>3</sup>/g, a BET surface area of not more than 1 m<sup>2</sup>/g and a wax content of not more than 1% by weight is chlorinated.

Comp. Specn. 19 Pages.

Drgs. Nil.

CLASS 72B

148048

Int. Cl. C 06 1/04 & C 06 19.00.

A PROCESS FOR THE MANUFACTURE OF AMMONIUM NITRATE EXPLOSIVE COMPOSITIONS AND AMMONIUM NITRATE EXPLOSIVE COMPOSITION OBTAINED BY THE SAID PROCESS.

Applicant : IDL CHEMICALS LIMITED SANATNAGAR (I.E.) P.O., HYDERABAD-17, ANDHRA PRADESH, INDIA.

Inventors : 1. Dr. GARIMELLA DURGA PRASAD  
2. PIJAKA PRABHAKARA RAO.

Application No. 39 Mas/78 filed March 20, 1978.

Complete specification left January 27, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 4 Claims. No Drawing.

A process of manufacture of an ammonium nitrate explosive composition comprising admixing water, known inorganic oxidiser salts known thickeners, known sensitizers and known fuels characterised by preparing a paste from alkanolamine nitrates, known surfactants and aluminium such as herein described, adding and dispersing the said paste in the said admixture.

(Prov.-14 pages; Com.-17 pages).

CLASS 98 D 148049  
Int cl F 24 h1/00.

#### A CENTRAL WATER HEATER.

Applicant & Inventor : SHARADKUMAR NARANDAS MODHIA C/o. SWASTIK LODGE HOUSE PANCH-MAHAL-DIST GUJARAT INDIA.

Application No. 85/BOM/78 Filed MARCH 23, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

#### 6 Claims

1. A central water heater comprising (i) a heat insulated boiler having a combustion chamber, an inlet for cold water near its one lower side and carrying a stop cock, and two hot water outlets, one of which is at its upper end and connected to hot water plumbing line to upper floors, and the other near its lower end at opposite side of said cold water inlet. said combustion chamber is provided with a detachable or integrally formed bracket carrying a detachable grate and means for supporting said boiler on iron stand or concrete base, and in that said boiler is having an outer and an inner shell in spaced relationship with each other and welded to or otherwise formed integral with the cylindrical wall of combustion chamber near its lower and upper end and the gap formed between said two shells is filled with or packed with heat insulating mineral wool, glass wool, asbestos wool or similar natural or synthetic heat insulating material to insulate said inner shell and prevent dissipation of heat therefrom, and said hot water outlet is provided with air vent pipe; and (ii) said boiler is provided with a port hole on its one side for cleaning the boiler periodically.

Complete specn 7 Pages drawing 3 sheets.

Class 80H 148050  
Int. Cl.-B01 d 21/00.

#### "IMPROVEMENT IN OR RELATING TO A PROCESS AND AN EQUIPMENT FOR PURIFICATION OF LIQUIDS BY SEDIMENTATION".

Applicant and Intentor : SADASHIV VASUDEO PATEWARDHAN 2047 SADASHIV PETH, POONA-411030, INDIA.

Application No. 107/BOM/78 filed April 14, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 4 Claims

A process for purification of liquid by sedimentation characterised in the steps of :—

(i) Passing the impure liquid to flow continuously inside a vessel having one or two columns, each having rows of plain or corrugated parallel plates inclined downwardly from one or opposite walls of the vessel, and arranged one above

another, having gap in between the rows of the aforesaid plates, as also gap between the vessel and/or the said one or two columns having rows of plates, which gap forms the sludge zone wherein a set of vertical baffle plates are placed across the flow of the incoming liquid to create quiescent condition in the sludge zone;

(ii) allowing the said liquid to flow at predetermined rate, over and across the aforesaid plates, so as to let the impurities in the said liquid to settle down upon each of such downwardly inclined plates to form sediments, while the liquid continues to flow, perpendicular to the directions of settlement of the impurities; and then,

(iii) allowing the sediment settled on the said inclined plates to flow downward in the gap or gaps in between the vessel and/or the said one or two columns of the said plates and further to the bottom of the vessel, from where it is intermittently or continuously removed, without disturbing the continuity of the process.

Complete specification : 9 pages; Drawing : 1 sheet.

CLASS 208. 148051  
Int. Cl.-B 43 K 5/00.

#### IMPROVEMENTS IN OR RELATING TO FOUNTAIN PEN.

Applicant : ANIL BANDERAO KADAM, 13 TILAK PATHA, DHAR, DISTRICT DHAR, MADHYA PRADESH, INDIA.

Application No. 150/BOM/1978. Filed May 16, 1978.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Bombay Branch.

#### 2 Claims

A fountain pen for writing in two colours comprising a barrel containing two ink containers; of which the open end is narrow; two sets of flat nibs and jibs, one set being fitted to the mouth of the narrow end of each one of the containers, the narrow ends of the container having the nib and jib assembly being press fitted in a conical cover such that the nibs and jibs protrude and a lid for closing the nibs.

Comp. Specn. 5 Pages.

Drg. 1 Sheet.

CLASS : 40F+128G 148052  
Int. Cl : A 61 m 1/00 +B01 d 13/00.

#### "PORTABLE DIALYSIS SYSTEM".

Applicant : SAKHARAM DHUNDIRAJ MAHURKAR, 1926, W. HARRISON ROOM 1809, CHICAGO, ILLINOIS 60612, U.S.A.

Application No. 219/Bom/1978 Filed July 1978.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 16 Claims

A portable dialysis system for dialysing blood comprising a pump and wherein blood passes through an exchange station with the blood contacting one side of a semi permeable membrane and an isotonic dialysate contacting the other side of the semi-permeable membrane, said system comprising tube means adapted to be connected to a blood source and to return blood thereto for conducting blood past a plurality of stations, a blood leak detector and an air bubble detector in communication with said blood tube means, tube means adapted to be connected to a source of dialysate for carrying dialysate past a plurality of stations, means for measuring and regulating dialysate flow-pressure, temperature and conductivity, means for maintaining the dialysate at a lower pressure than the blood during passage through the exchange station, motor means having a single output shaft with a plurality of rollers mounted thereon, each roller being in contact with an appropriate tube means for moving dialysate through the dialysate tube means and through the exchange station at a first predetermined flow rate and for moving blood through the blood tube means and through the exchange station at a second predetermined flow rate, mechanism for independently varying the speed of said rollers

resulting in said first and second flow rates being independently controlled, and control mechanism operatively connected to the blood leak detector and the air bubble detector and to the motor means and to the dialysate flow, pressure, temperature and conductivity measuring means for selective stopping of the dialysate roller thereby halting movement of dialysate through the dialysate tube means and through the exchange station in response to pressure or temperature or conductivity measurements outside of a preselected range while maintaining blood flow and for simultaneously stopping all the rollers in response to a signal from either the blood leak detector or the air bubble detector to shut down the entire system and halt pumping; a hydraulic disproportionator means and also a double layered dialysate bag mounted on a wheel trolley.

Complete specification : 18 Pages; Drawings : 5 sheets.

CLASS 157D. 148053.

Int. Cl.-F01b 9/60.

#### A RAILWAY RAIL AND FASTENING ASSEMBLY.

Applicant : PANDROL LIMITED, OF 9 HOLBORN, LONDON EC1N 2NE, ENGLAND.

Inventor : TREVOR PAUL BROWN.

Application No. 102/Cal/77 filed, January 25, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 9 Claims.

A railway rail and fastening assembly comprising a rail foundation, a rail laid on the rail foundation and a rail clip, made by bending a metal bar, holding the rail down on the rail foundation, an end portion of the bar descending with an inclination to the horizontal, proceeding towards the extreme end of the bar, and its under side not rising again to any substantial extent before or when said extreme end of the bar is reached and said end portion having on its under side a substantially flat surface which, in the driving of the clip into its position, has run up in contact with, an inclined surface on a stop projection prior to said end portion having dropped behind said stop projection so that the extreme end surface of the bar faces a second surface of the stop projection and, on any attempt to remove the clip by moving it solely by hammer blows in the direction opposite to the direction in which the clip was driven into its position, said extreme end surface of the bar abuts said second surface of the stop projection so that such removal of the clip is prevented.

Comp. Specn. 16 Pages. Drgs. 2 Sheets.

148054.

CLASS 107H.

Int. Cl.-F02m 55/02.

#### IMPROVEMENTS IN OR RELATING TO A DEVICE FOR DAMPING PRESSURE WAVES IN AN INTERNAL COMBUSTION ENGINE FUEL INJECTION SYSTEM.

Applicant : SOCIETE D'ETUDES DE MACHINES THERMIQUES S.E.M.T., OF 2, QUAI DE SEINE, 93202 SAINT-DENIS, FRANCE.

Inventor : DIRK BASTENHOF.

Application No. 184/Cal/77 filed February 9, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims.

A device for injecting liquid fuel into an internal combustion engine such as a high-power diesel engine, comprising a least one injection pump serving to deliver a predetermined amount of fuel under high pressure into a discharge or injection conduit or tube leading to at least one injector, the latter comprising a body containing a valve needle actuated upon by a return spring and movable, under the action of the pressure of the fuel delivered into the discharge conduit, between an open position, in which the fuel is allowed to flow to at least one orifice or like passage-way opening into a combustion chamber of the engine, and a closed

position in which the fuel is shut off from the said orifice or orifices, characterized in that it comprises a chamber constituting a pressure accumulator and connected through a narrow passage with the said discharge conduit at any location of the said conduit between the pump and the injector valve needle, the said chamber being intended to suppress or at least greatly reduce the pressure oscillations appearing in the said conduit and the said injection during the end of the injection of a predetermined amount of fuel into the combustion chamber.

Comp. Specn. 20 Pages. Drgs. 3 Sheets.

CLASS 190B.

148055.

Int. Cl.-F01d 5/00.

#### A ROTOR ASSEMBLY FOR A GAS TURBINE ENGINE.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : WILLIAM FRANKLIN STAHL.

Application No. 525/Cal/77 filed April 7, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims.

A rotor assembly for a gas turbine engine comprising a number of ferritic alloy discs each having a plurality of axial grooves, and a plurality of ceramic rotor blades supported by said rotor discs, characterized in that said blades (20) are mounted on the rotor discs (18) by a plurality of intermediate radially extending members (26), each having a root portion (28) defining a shape complimentary to said grooves (24) and being received therein, said intermediate members (26) being composed of a highly temperature resistant metal alloy and having at their radially outer end (32) channel-forming notches (34), and said blades (20) having root portions (40) of a configuration complimentary to said notches (34) and being received in said channels (46) and firmly supported by said intermediate members (26).

Comp. Specn. 12 Pages.

Drg. 2 Sheets.

CLASS 69Q & 98H.

148056.

Int. Cl.-H01h 37/00

#### AN ELECTRICAL BIMETALLIC SWITCHING DEVICE.

Applicant & Inventor : LOCHAN MOHAN, OF 7, NEW OKHLA INDUSTRIAL COMPLEX, PHASE-I, NEW DELHI-110020, INDIA.

Application No. 182/Del/77 filed August 4, 1977.

Complete Specification left October 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 12 Claims.

A bimetallic switching device comprising a fixed contact to be connected to one line of an electrical power source and a movable contact adapted to be connected to a load or an electrical machine or appliance characterised in that a snap action member is provided which includes two or more bimetallic strips for displacing the movable contact, the assembly of the snap action member and the contacts having three points of action, each of the said points defining a separate joint or connection between two members of the assembly, and at least two of the said points being movable relative to the remaining point, the first and the second points lying initially on a movable axis, the third point which is a movable point and the other movable point on the said axis being adapted to move towards each other while snap action of the said member is effected by heat.

Prov. Specn. 6 Pages. Comp. Specn. 13 Pages. Prov. Drg. Nil. Comp. Drg. 1 Sheet.

CLASS 27B. 148057.  
Int. Cl.-E04h 5/00.

**IMPROVEMENTS RELATING TO LIGHTWEIGHT BUILDINGS.**

*Applicant* : WARD BROTHERS (SHERBURN) LIMITED OF WIDESPAN WORKS, SHERBURN, MALTON, YORKSHIRE, ENGLAND.

*Inventor* : NORMAN BURNETT.

Application No. 1437/Cal/77 filed September 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

31 Claims.

A lightweight building including a pitched roof comprising a framework covered by cladding, the framework comprising a plurality of pairs of rafters, the rafters of each pair being connected together at one end, co-planar and mutually inclined, the pairs of rafters being arranged in side by side relationship with purlins extending between adjacent pairs wherein each rafters comprises at least one cold rolled section comprising a pair of spaced parallel flange portions and a web extending between said flange portions the web comprising a planar central part which extends normal to the flange portions and is flanked by at least one inclined part so that the plane of the central part intersects at least one flange portion.

Comp. Specn. 25 Pages.

Drg. 6 Sheets.

CLASS 167G. 148058.  
Int. Cl.-D21d 5/02.

**SCREENING APPARATUS.**

*Applicant* : CANADIAN INGERSOLL-RAND CO., LTD., AT 620 CATHCART STREET H3B, 1M2, MONTREAL, QUEBEC, CANADA.

*Inventor* : DOUGLAS LEONARD GEOFFREY YOUNG.

Application No. 363/Del/77 filed November 2, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

A screening apparatus for screening a liquid suspension containing desirable fiber and undesirable contaminants comprising : a fixed perforated enclosing screen forming an accepts chamber; soil means coaxially rotatably carried within said accepts chamber and adjacent the inside of the screen for preventing clogging of the screen; an accepts outlet communicating with the accepts chamber; a fixed cylindrical wall surrounding the enclosing screen to form an axially extending channel defined by the outside of the screen and said wall, said axially extending channel having a radial dimension small enough so that the acceptable fiber content in the rejects is kept to a minimum and a reasonably low reject flow is maintained; means for flowing dilution liquid defined by said wall, having a tangential velocity component, into the axially extending channel, at least one point transversely spaced from the enclosing screen; means for flowing at least part of the liquid suspension into the axially extending channel; and a rejects outlet communicating with the axially-extending channel for removing undesirable contaminants from the housing.

Comp. Specn. 12 Pages.

Drg. 2 Sheets.

CLASS 90-I & K. 148059.  
Int. Cl.-C03b 18/02.

**IMPROVEMENTS IN OR RELATING TO THE MANUFACTURE OF A RIBBON OF FLAT GLASS.**

*Applicant* : PILKINGTON BROTHERS LIMITED, OF PRESCOT ROAD, ST. HELENS, MERSEYSIDE WA10 3TT, ENGLAND.

*Inventor* : GEORGE ALFRED DICKINSON.

Application No. 1598/Cal/77 filed November 11, 1977.

Convention date November 30/1976/(49918/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

33 Claims.

A method of manufacturing a ribbon of flat glass by the float process in which a ribbon of glass is advanced along a molten metal bath which has a deepened zone and traction is applied to the ultimate ribbon of glass to accelerate the glass to a final discharge speed whereby causing, as the glass accelerates, progressively increasing entrainment of molten metal below the ribbon of glass which entrained molten metal cools as it advances towards the outlet end of the bath and becomes an upstream flow of cooler molten metal from the direction of the outlet end of the bath and below the advancing entrained molten metal, characterised in that the deepened zone (32) of the bath is located in the region where the final discharge speed of the ribbon is achieved, which zone is spaced upstream from the outlet end of the bath, the upstream flow (41) of the cooler molten metal from the outlet end of the bath flows into the deepened zone (32), the cooler molten metal is heated in the zone (32) by contact with hotter molten metal in that zone thereby minimizing thermal inhomogeneities in the molten metal supporting the ribbon where it achieves its final discharge speed, and thermally homogenised molten metal is drawn from the deepened zone to replenish the molten metal (39) entrained below the accelerating ribbon of glass.

Comp. Specn. 40 Pages.

Drgs. 3 Sheets.

CLASS 107 B & G. 148060.

Int. Cl.-F02b 25/00.

**A 2-CYCLE ENGINE OF AN ACTIVE THERMOATMOSPHERE COMBUSTION TYPE.**

*Applicant* : TOYOTA JIDOSHA KOGYO KABUSHIKI KAISHA, OF 1, TOYOTA-CHO, TOYOTA-SHI, AICHI-KEN, JAPAN AND SIGERU ONISHI, OF 31-12, HIGASHI-HIYAMA, 3-CHOME, KANAZAWA-SHI, ISHIKAWA-KEN, JAPAN.

*Inventor* : SIGERU ONISHI.

Application No. 496/Del/77 filed December 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Delhi Branch.

20 Claims.

A 2-cycle engine of an active thermoatmosphere combustion type comprising : a cylinder having a cylinder bore and a crank room therein; a piston reciprocably movable in said cylinder bore, said piston and a cylinder head defining a combustion chamber; an intake passage having mixture forming means therein for introducing a fresh combustible mixture into said crank room; first scavenging passage means connected to said crank room for causing the fresh combustible mixture to flow at a high speed; second scavenging passage means communicating said first scavenging passage means with a scavenging port opening into said combustion chamber for causing the fresh combustible mixture to flow at a low speed; and an exhaust passage having an exhaust port opening into said combustion chamber for discharging exhaust gas to the atmosphere.

Comp. Specn. 20 Pages.

Drg. 12 Sheet

**OPPOSITION PROCEEDINGS**

An opposition has been entered by Indian Explosives Limited to the grant of a patent on application No. 147481 made IDL Chemicals Limited.

**PRINTED SPECIFICATION PUBLISHED**

A limited number of printed copies of the under specifications are available for sale from the Officer-in-Charge,

Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

(1)

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#### PATENTS SEALED

140553 143767 144826 146671 146921 146929 146937 146941  
 146942 146952 146953 146954 146968 146969 146977 146992  
 147004 147014 147018 147025.

#### AMENDMENT PROCEEDINGS UNDER SECTION 57

The amendments proposed by Associated Engineering Limited in respect of Patent Application No. 145676 as advertised in Part III, Section 2 of the Gazette of India dated the 12th April, 1980 have been allowed.

#### PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

*The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the Patents.*

No.	&	Title of the invention
138210	(28.02.73)	Process for the preparation of catalytic composition suitable for use in the amoxidation, oxidation and oxidative dehydrogenation of olefins.
139877	(13.03.74)	A method of preparing a test device for determining total cholesterol in a biological fluid sample.
139905	(06.11.73)	Process for the preparation of P-Biphenyl ester of 15-substituted-w-pentanor prostaglandins.
139907	(04-05-74)	A process for the preparation of 6-aminopenicillanic acid.
139908	(04-05-74)	A process for the preparation of 6-aminopenicillanic acid.
139924	(10.01.74)	Process for the preparation of 4-bromo-naphthalic acid anhydride.
139932	(18.01.74)	Process for preparing 6-[ $\alpha$ -(amidino and imidonylamo) arylamino] penicillanic acid.
139957	(06.09.73)	Improvements in or relating to the manufacturing process of versatile aluminium alloy.
139966	(19.09.74)	A process for the production of domestic or industrial fuel briquets utilizing middlings.
139996	(01.11.74)	Process for the manufacture of 1-phthalazone derivative.
140004	(30.01.74)	Process for the preparation of cationic azodyestuff.
140025	(03-08-73)	Process for recovering terephthalic acid dimethylester.
140034	(01.06.74)	A process for the preparation of pensin from buffalo and goat stomach.
140043	(15.09.75)	Process for preparing a herbicide composition.
140064	(18.07.74)	A method of preparing desalanyl tetaine N-acyl derivative.

140076 (16.07.74) Method of extracting gallium from alluminate solution.

140098 (05.11.73) Improvements in or relating to sintering of fine grain substance for example iron ores.

140118 (16.02.74) Process for purifying metallurgical gases containing sulfurous anhydride by extracting mercury.

140173 (28.06.74) Improvements in related to the beneficiation of titaniferrous ores.

140285 (02.07.74) Method of preparing a new alloy

140316 (29.10.74) A method of preparing nickel based alloy.

#### RENEWAL FEES PAID

101523 101841 102171 107155 107230 107232 107452 108537  
 108648 112256 112257 112264 112412 112548 117643 117663  
 118087 118088 118456 118970 122989 123002 123030 123072  
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#### CESSATION OF PATENTS

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#### RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 114164 granted to Schloemann Aktiengesellschaft for an invention relating to "continuous casting plant". The patent ceased on the 22nd January, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 23rd August, 1980.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 4th December 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144378 granted to Taraporewala Marine Biological Research Station, for an invention relating to "a hatchery for the hatching of fish eggs".

The patent ceased on the 17th October, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 22nd December, 1979.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents. The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17, on or before the 4th December 1980 under Rule 69 of the Patents Rules, 1972. A written Statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application for restoration of Patent No. 138390 dated the 23rd November, 1972 made by Aluminium Pechiney on the 18th October, 1979 and notified in the Gazette of India, Part III, Section 2 dated the 29th March, 1980 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application, for restoration of Patent No. 139988 dated the 26th October 1973 made by Societe Francaise D'Electrometallurgie on the 17th October, 1979 and notified in the Gazette of India, Part III, Section 2 dated the 29th March, 1980 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 142766 dated the 16th November, 1974 made

by John Dargan Hollingsworth on the 14th November, 1979 and notified in the Gazette of India, Part III, Section 2 dated the 29th March, 1980 has been allowed and the said patent restored.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

NIL

#### EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS

Design Nos. 137084, 137087, 137185, 137186, 137187, 137188, 137189, 137190, 137191, 137203, 137204, 137205, 137206, Class 1.

Design Nos. 137085, 137088, 137193, 137194, 137195, 137196, 137197, 137198, 137199, 137221, 137222, 137223, 137224, Class 3.

Design Nos. 137086 and 137089 Class 4.

S. VEDARAMAN.  
Controller General of Patents, Designs  
and Trade Marks.

